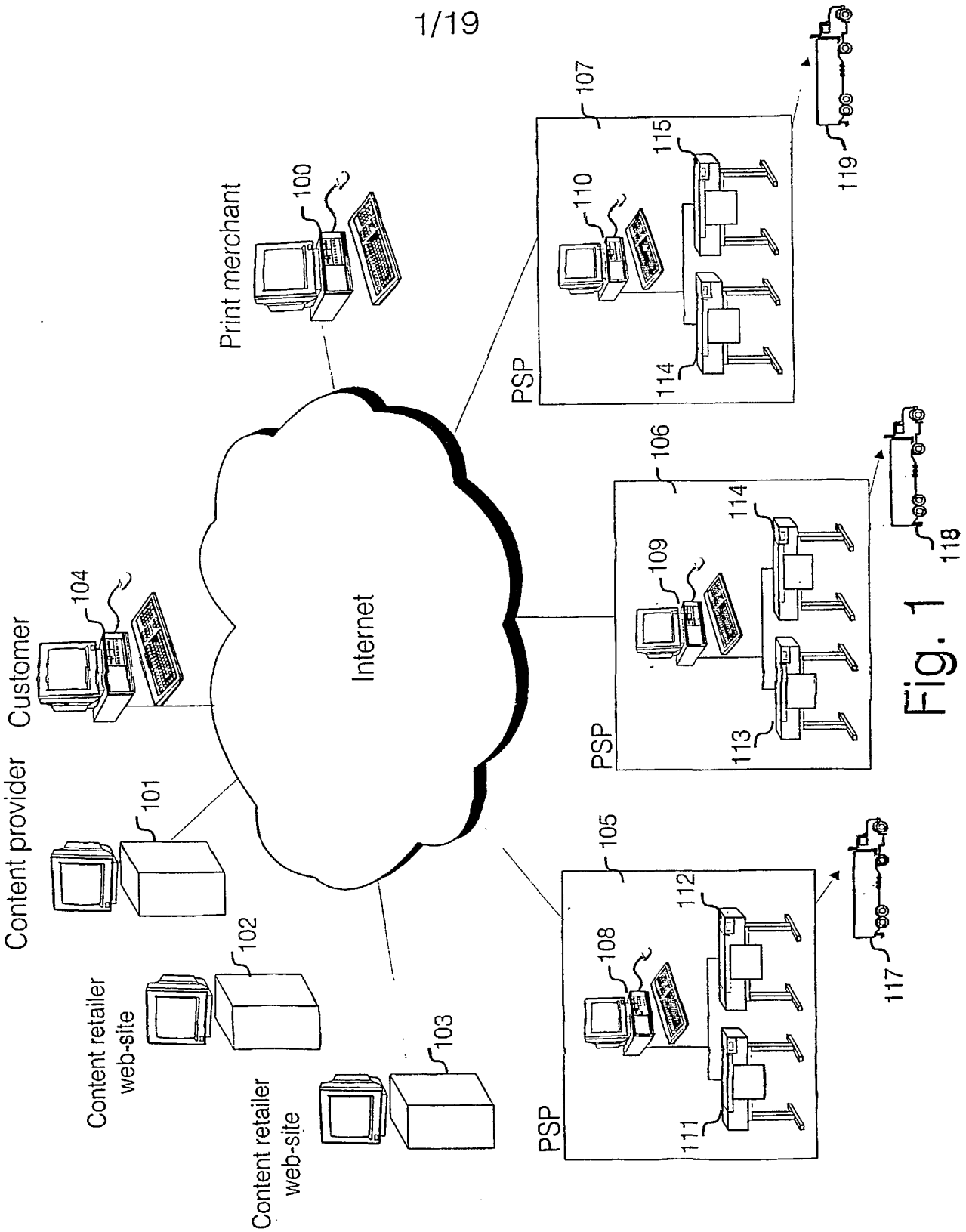
Print merchant
100
Internet
Customer
104
Content provider
101
Content retailer web-site
102
Content retailer web-site
103
PSP
105
108
112
111
117
PSP
106
109
114
113
118
PSP
107
110
115
114
119

Fig. 1

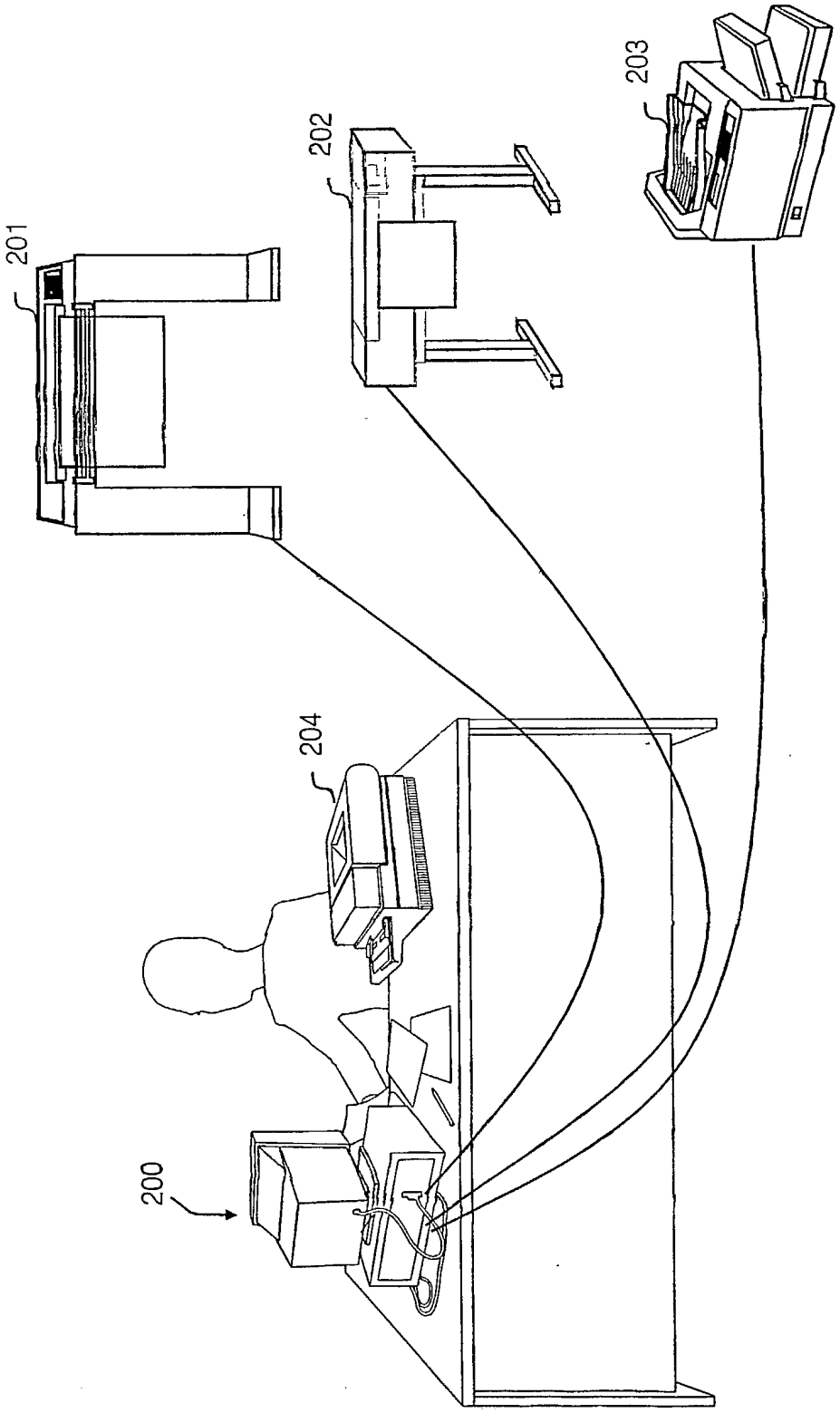

Fig. 2

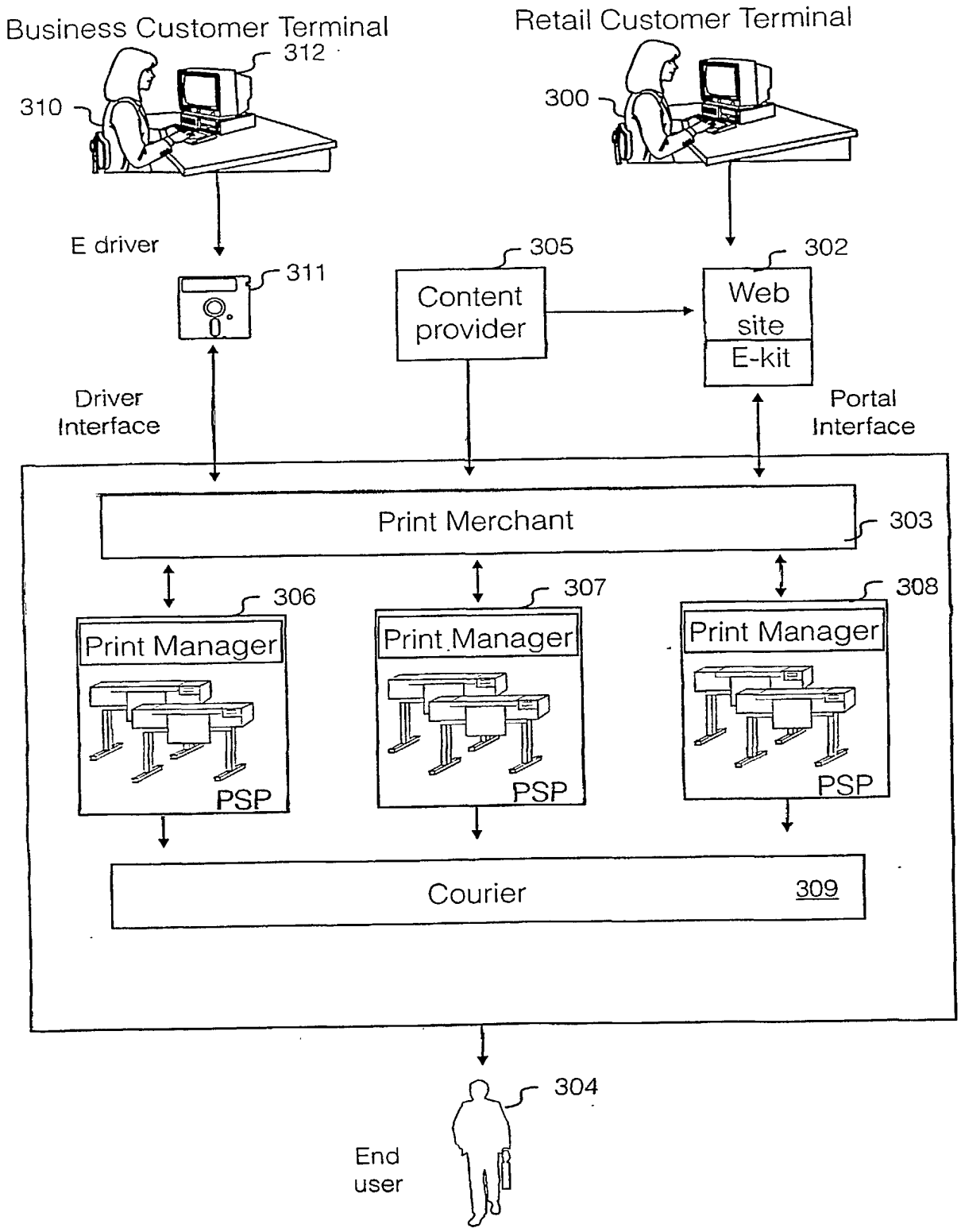
Business Customer Terminal
312
310
Retail Customer Terminal
300
E driver
311
305
Content provider
302
Web site
E-kit
Driver Interface
Portal Interface
Print Merchant
303
306
Print Manager
PSP
307
Print Manager
PSP
308
Print Manager
PSP
Courier
309
304
End user

Fig. 3

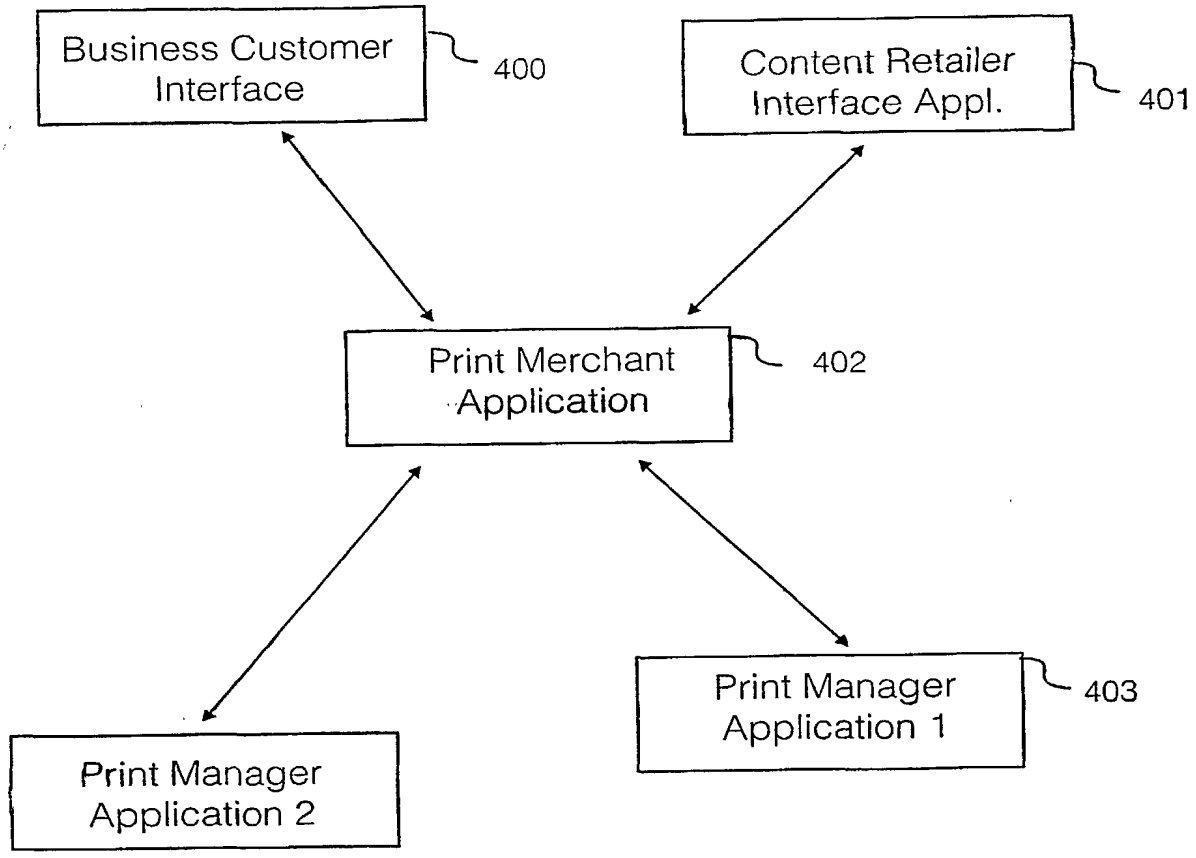
Business Customer Interface
400
Content Retailer Interface Appl.
401
Print Merchant Application
402
Print Manager Application 1
403
Print Manager Application 2

Fig. 4

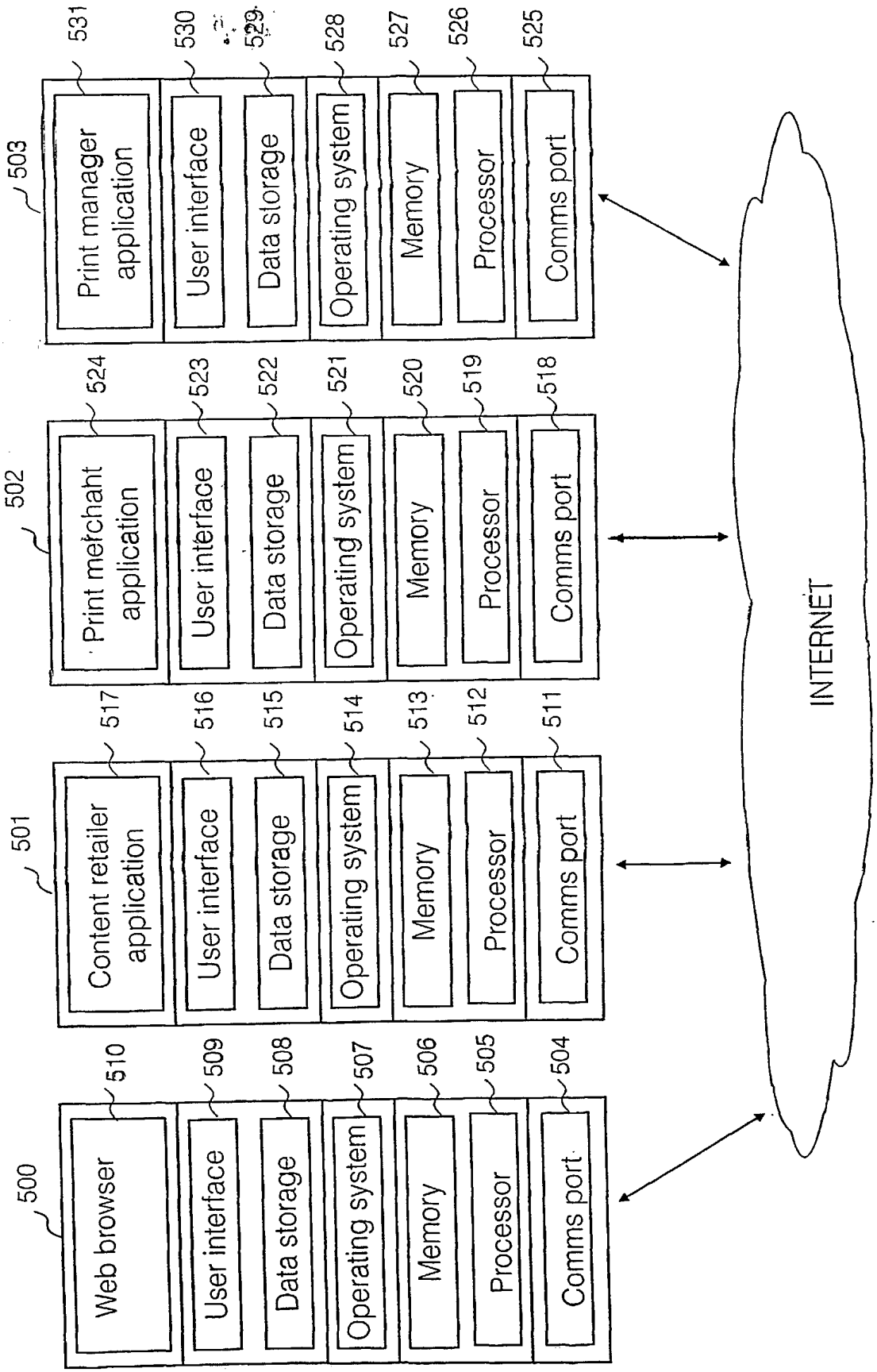
500
Web browser
510
User interface
509
Data storage
508
Operating system
507
Memory
506
Processor
505
Comms port
504
501
Content retailer application
517
User interface
516
Data storage
515
Operating system
514
Memory
513
Processor
512
Comms port
511
502
Print merchant application
524
User interface
523
Data storage
522
Operating system
521
Memory
520
Processor
519
Comms port
518
503
Print manager application
531
User interface
530
Data storage
529
Operating system
528
Memory
527
Processor
526
Comms port
525
INTERNET

Fig. 5

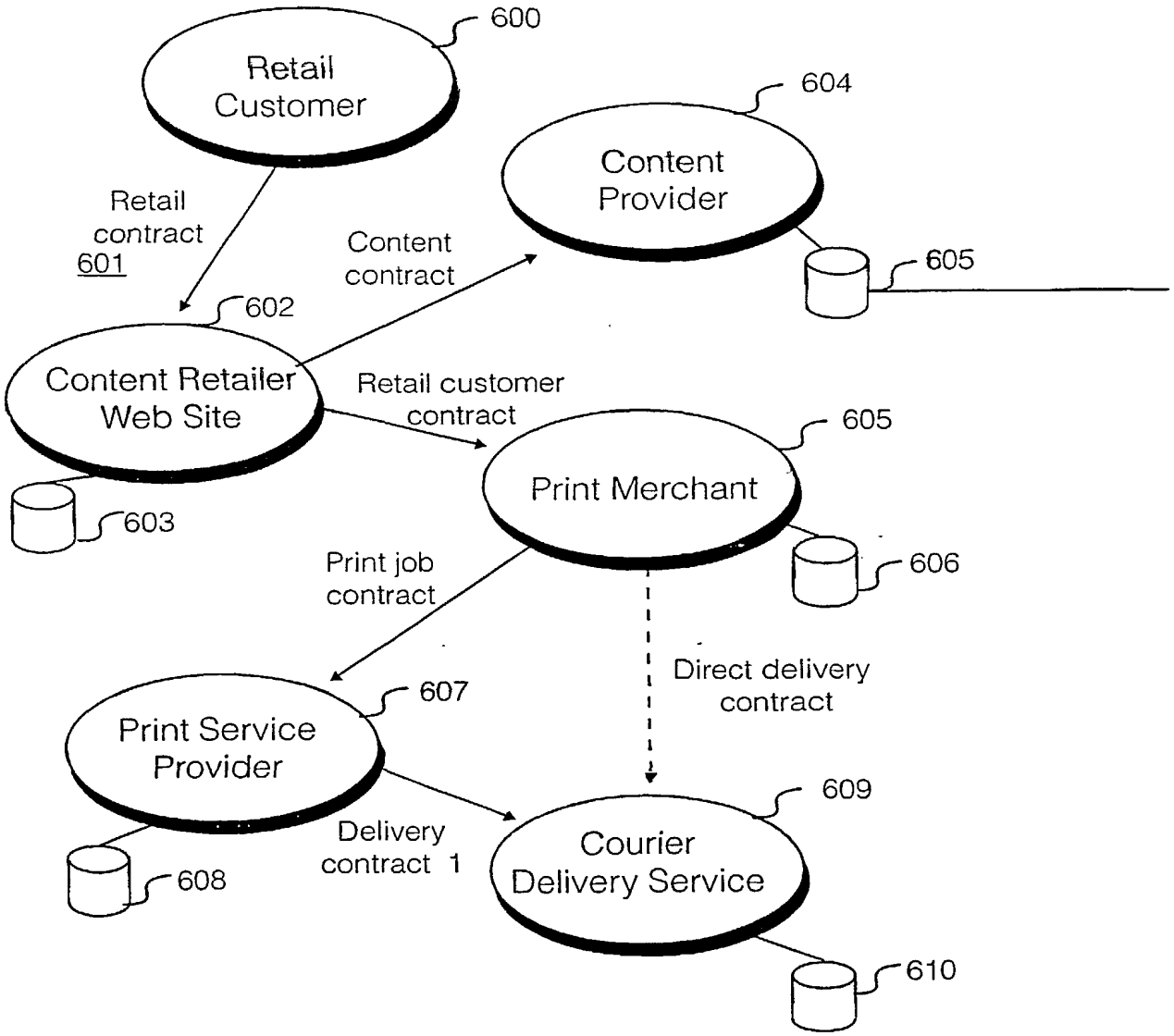
Retail Customer
600
Retail contract 601
Content Provider
604
Content contract
605
602
Content Retailer Web Site
Retail customer contract
605
Print Merchant
603
606
Print job contract
Direct delivery contract
607
Print Service Provider
609
Delivery contract 1
Courier Delivery Service
608
610

Fig. 6

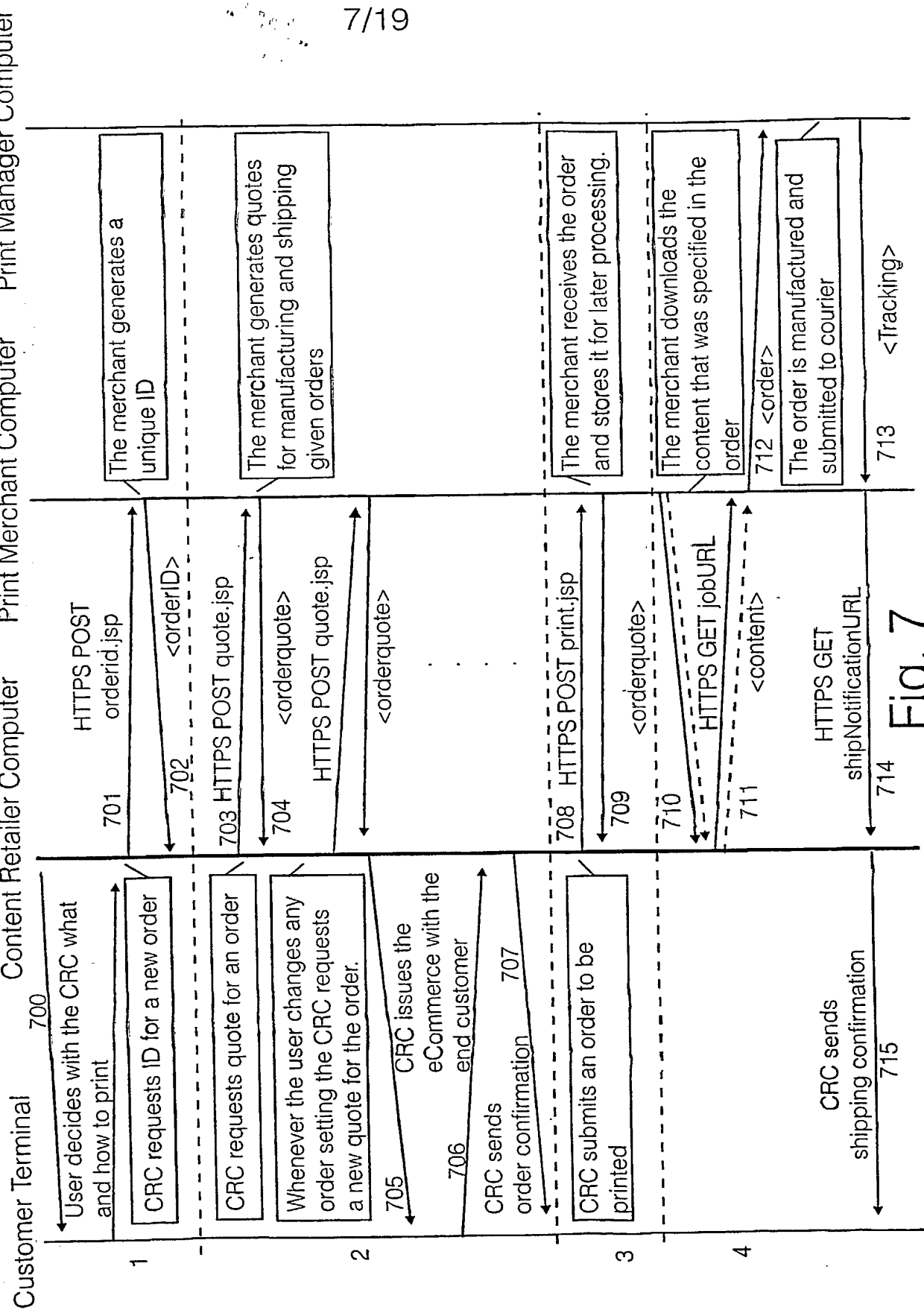
Customer Terminal
Content Retailer Computer
Print Merchant Computer
Print Manager Computer
700
User decides with the CRC what and how to print
CRC requests ID for a new order
HTTPS POST orderid.jsp
701
<orderID>
702
CRC requests quote for an order
HTTPS POST quote.jsp
703
<orderquote>
704
Whenever the user changes any order setting the CRC requests a new quote for the order.
HTTPS POST quote.jsp
<orderquote>
705
CRC issues the eCommerce with the end customer
706
CRC sends order confirmation
707
CRC submits an order to be printed
HTTPS POST print.jsp
708
<orderquote>
709
HTTPS GET jobURL
710
<content>
711
HTTPS GET shipNotificationURL
714
CRC sends shipping confirmation
715
The merchant generates a unique ID
The merchant generates quotes for manufacturing and shipping given orders
The merchant receives the order and stores it for later processing.
The merchant downloads the content that was specified in the order
712 <order>
The order is manufactured and submitted to courier
713 <Tracking>
1
2
3
4

Fig. 7

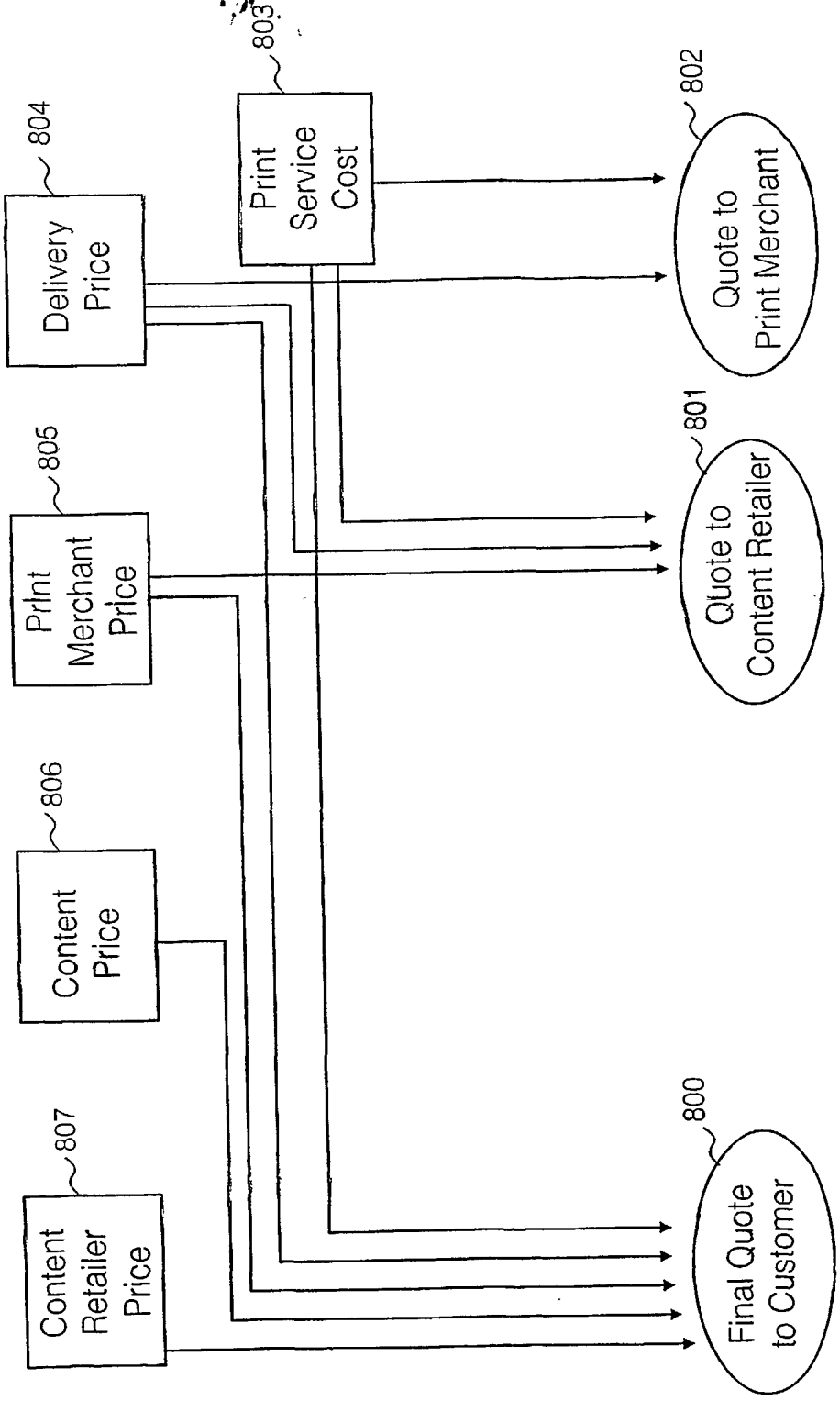
803
Print Service Cost
802
Quote to Print Merchant
804
Delivery Price
805
Print Merchant Price
801
Quote to Content Retailer
806
Content Price
807
Content Retailer Price
800
Final Quote to Customer

Fig. 8

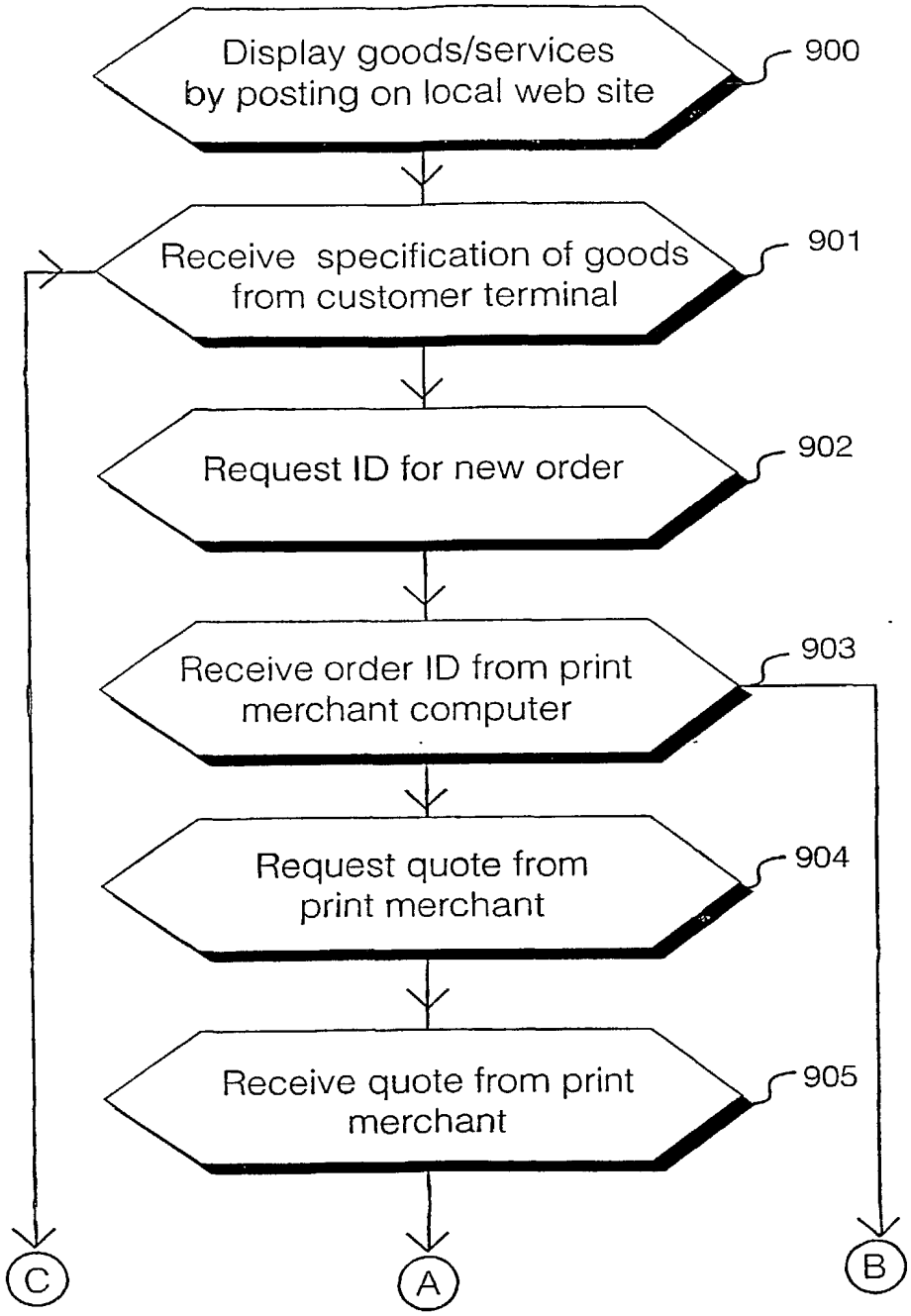
Display goods/services by posting on local web site
900
Receive specification of goods from customer terminal
901
Request ID for new order
902
Receive order ID from print merchant computer
903
Request quote from print merchant
904
Receive quote from print merchant
905
C
A
B

Fig. 9

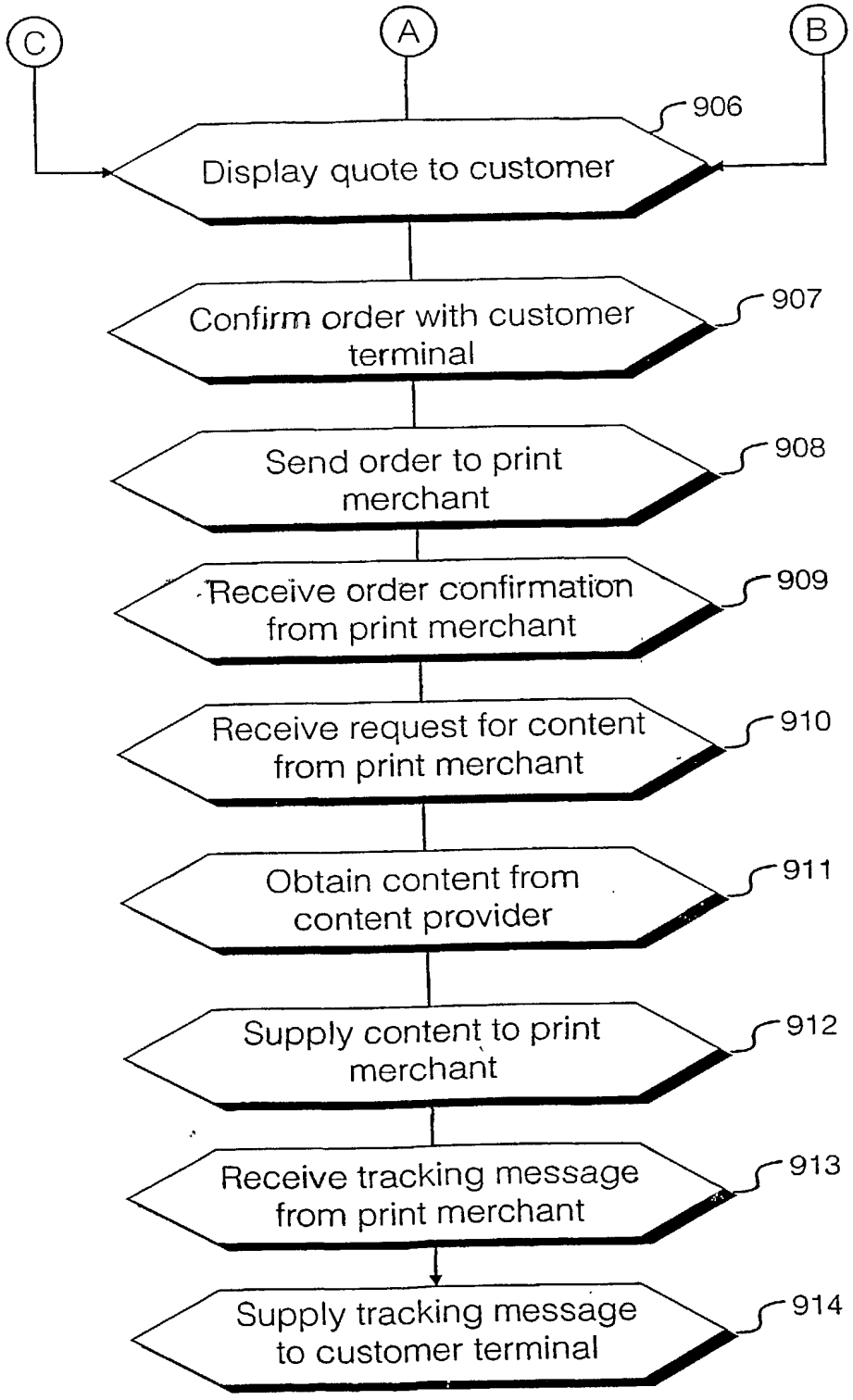
C
A
B
906
Display quote to customer
907
Confirm order with customer terminal
908
Send order to print merchant
909
Receive order confirmation from print merchant
910
Receive request for content from print merchant
911
Obtain content from content provider
912
Supply content to print merchant
913
Receive tracking message from print merchant
914
Supply tracking message to customer terminal

Fig. 9

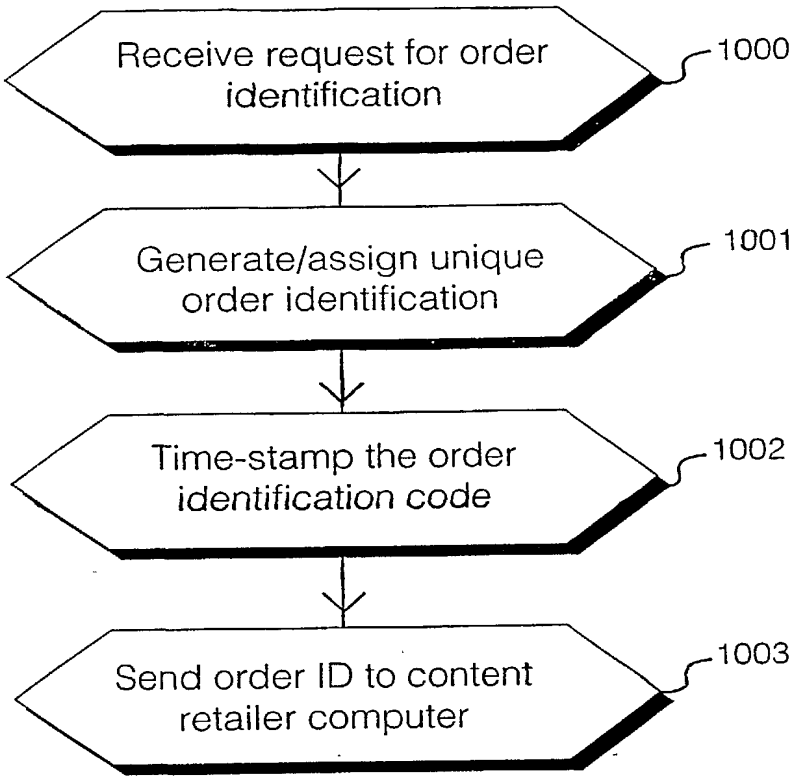
Receive request for order identification
1000
Generate/assign unique order identification
1001
Time-stamp the order identification code
1002
Send order ID to content retailer computer
1003

Fig. 10

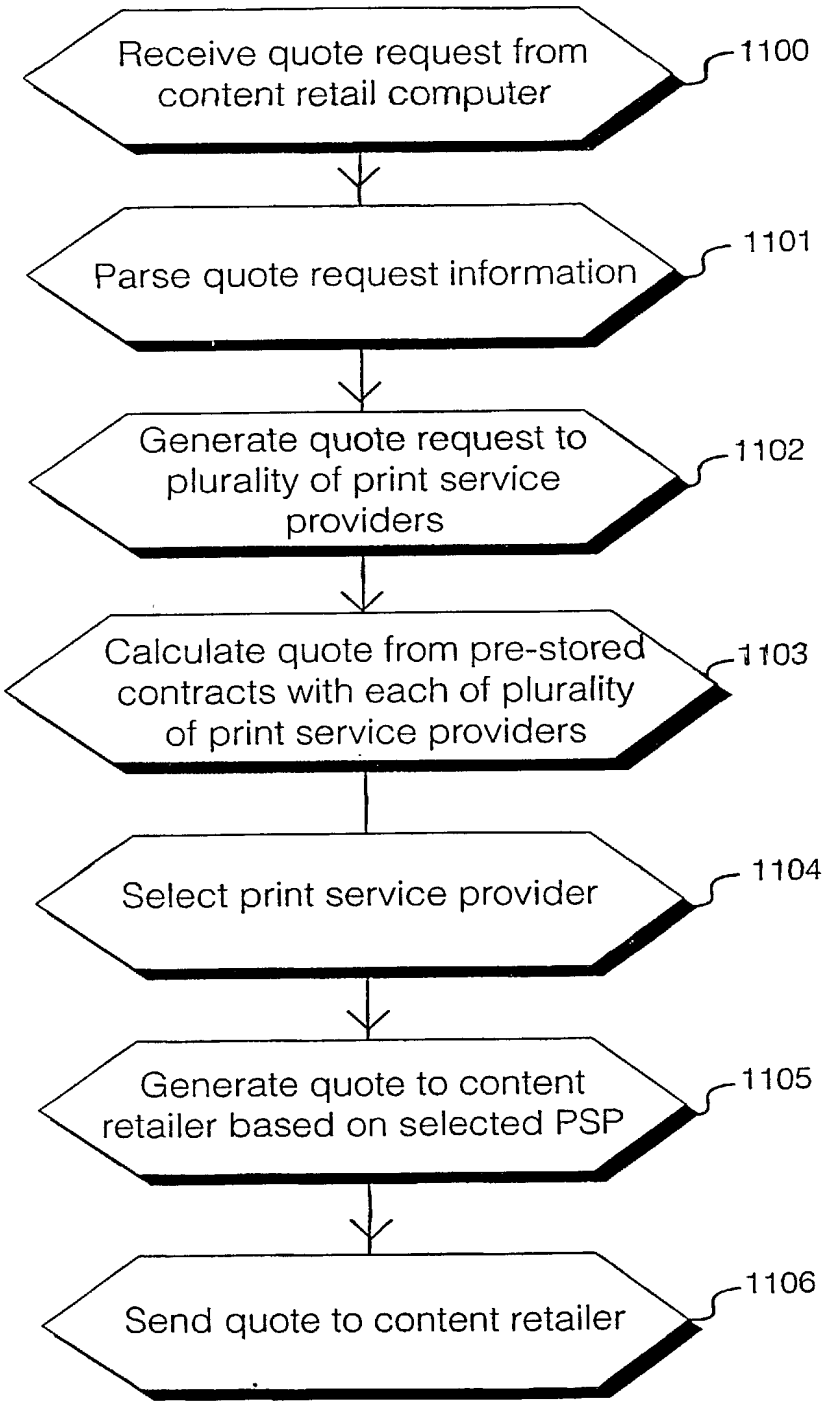
Receive quote request from content retail computer
1100
Parse quote request information
1101
Generate quote request to plurality of print service providers
1102
Calculate quote from pre-stored contracts with each of plurality of print service providers
1103
Select print service provider
1104
Generate quote to content retailer based on selected PSP
1105
Send quote to content retailer
1106

Fig. 11

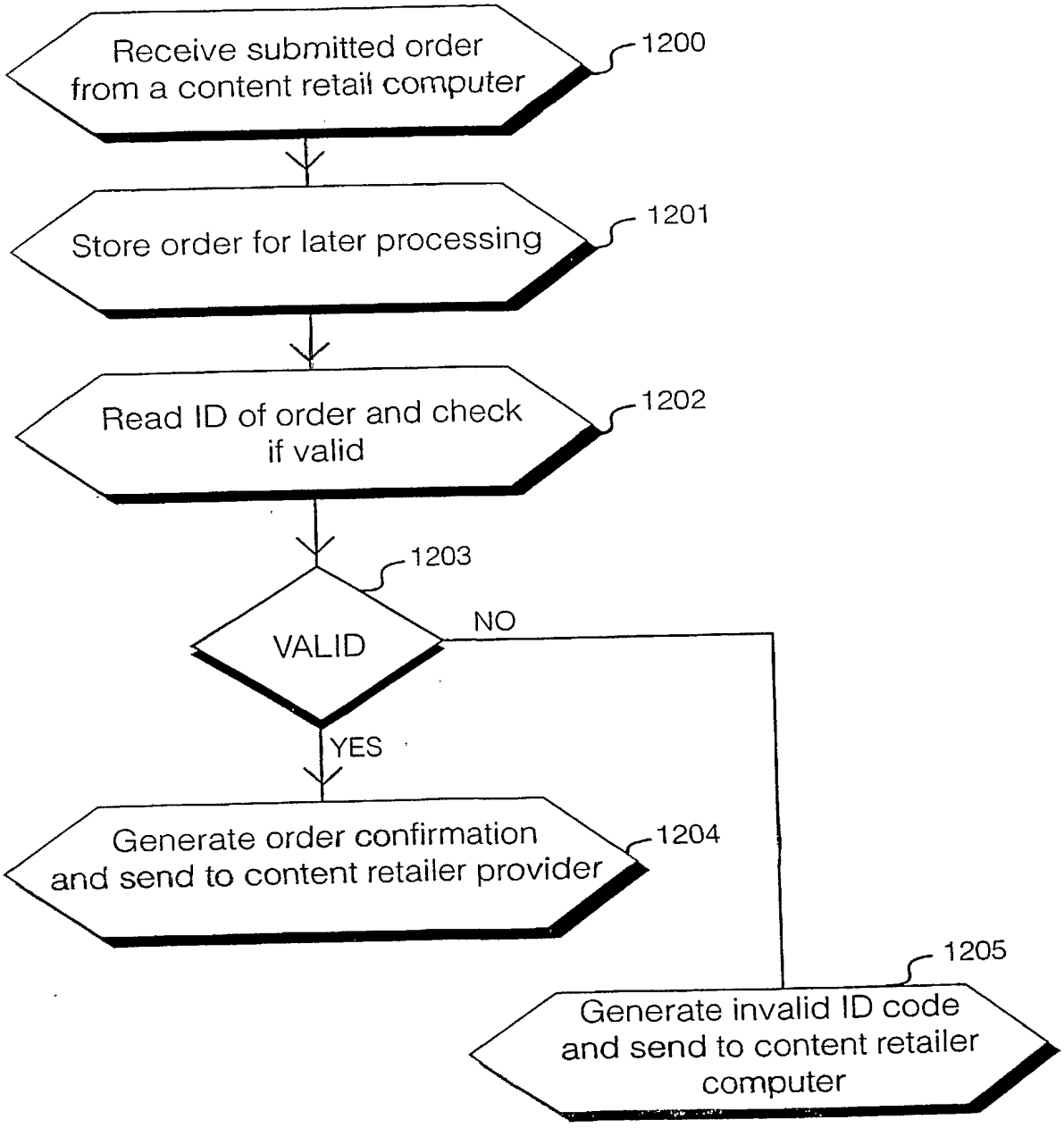
Receive submitted order from a content retail computer
1200
Store order for later processing
1201
Read ID of order and check if valid
1202
1203
VALID
NO
YES
Generate order confirmation and send to content retailer provider
1204
1205
Generate invalid ID code and send to content retailer computer

Fig. 12

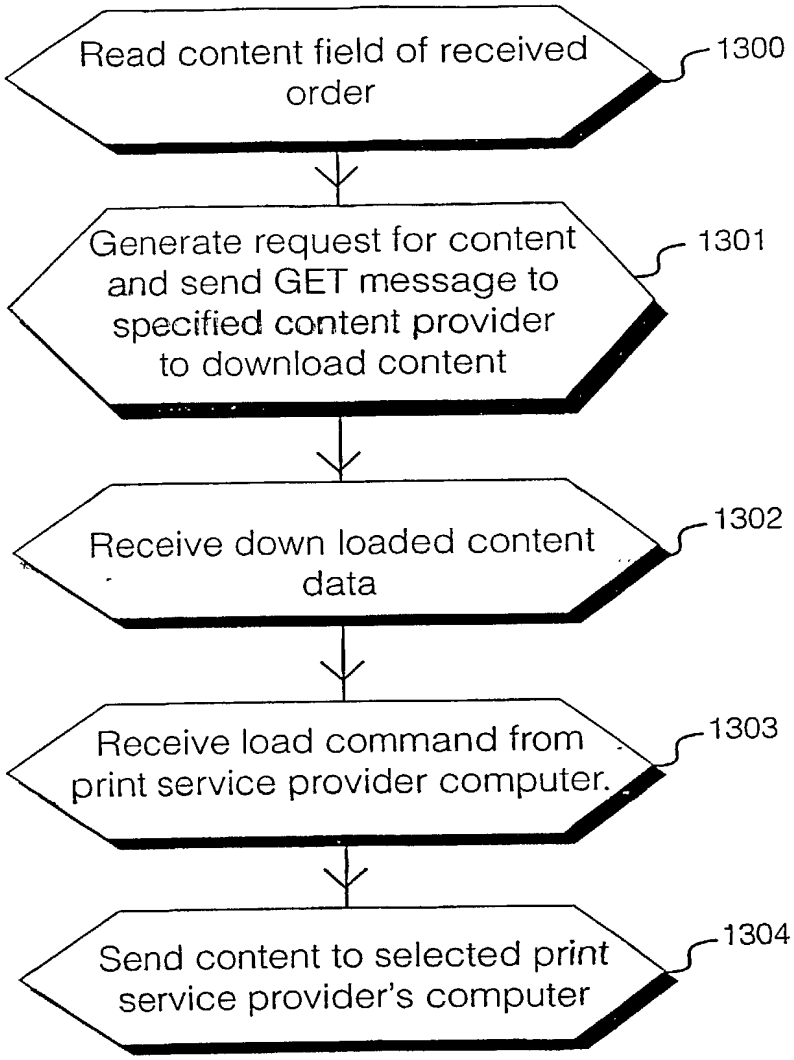
Read content field of received order
1300
Generate request for content and send GET message to specified content provider to download content
1301
Receive down loaded content data
1302
Receive load command from print service provider computer.
1303
Send content to selected print service provider's computer
1304

Fig. 13

1400

```
<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE Order SYSTEM
"http://control.hpposter.com/xml/schema/V3.4/order.dtd">
    <order version ="3.4">
    <order>
        <!- order control - ->                          1401
        <job>
            <!-- what to print -->                     1402
            <!-- how to print -->                      1403
        </job>
        <shipping>
            <!-- how & where to ship -->               1404
        <shipping>
    </order>
```

Fig. 14

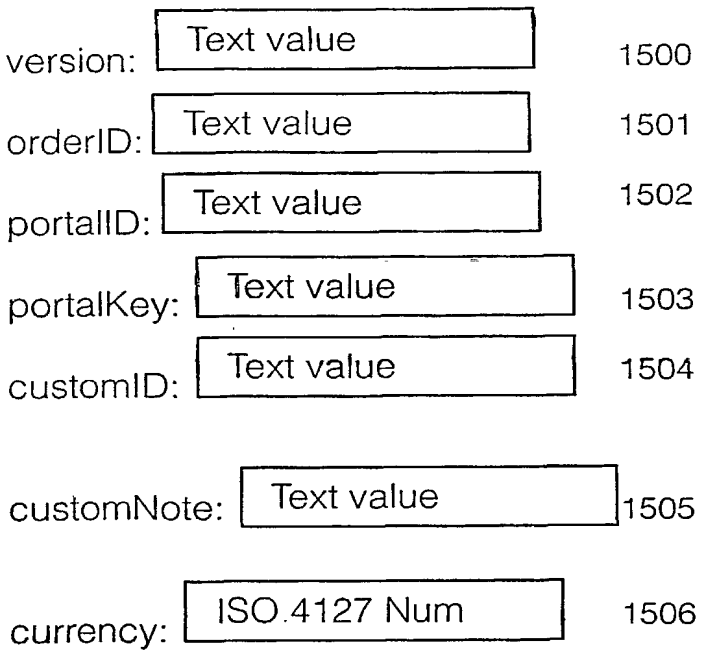
version:
Text value
1500
orderID:
Text value
1501
portalID:
Text value
1502
portalKey:
Text value
1503
customID:
Text value
1504
customNote:
Text value
1505
currency:
ISO.4127 Num
1506

Fig. 15

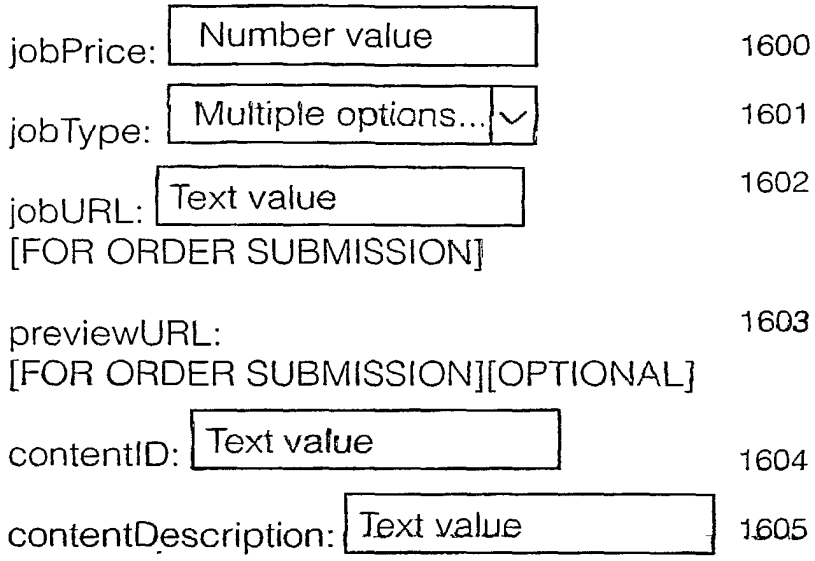
jobPrice: Number value
1600
jobType: Multiple options...
1601
jobURL: Text value
1602
[FOR ORDER SUBMISSION]
previewURL:
1603
[FOR ORDER SUBMISSION][OPTIONAL]
contentID: Text value
1604
contentDescription: Text value
1605

Fig. 16

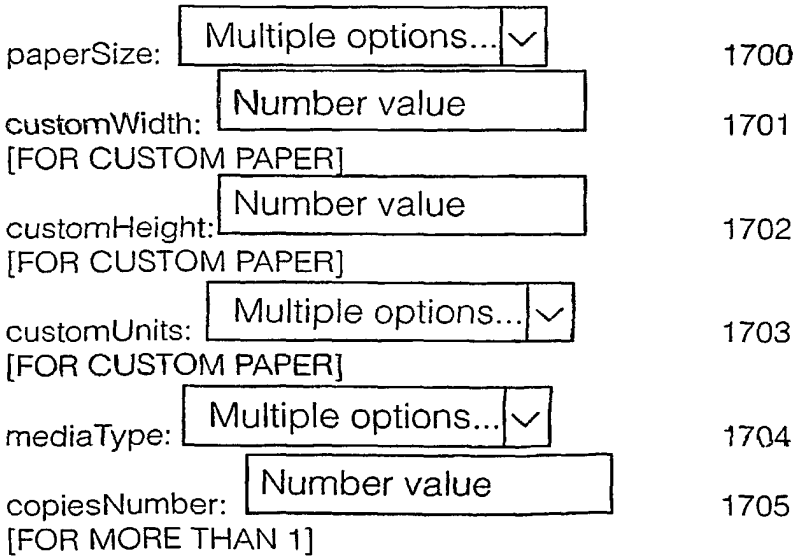
paperSize: Multiple options...
1700
customWidth: Number value
1701
[FOR CUSTOM PAPER]
customHeight: Number value
1702
[FOR CUSTOM PAPER]
customUnits: Multiple options...
1703
[FOR CUSTOM PAPER]
mediaType: Multiple options...
1704
copiesNumber: Number value
1705
[FOR MORE THAN 1]

Fig. 17

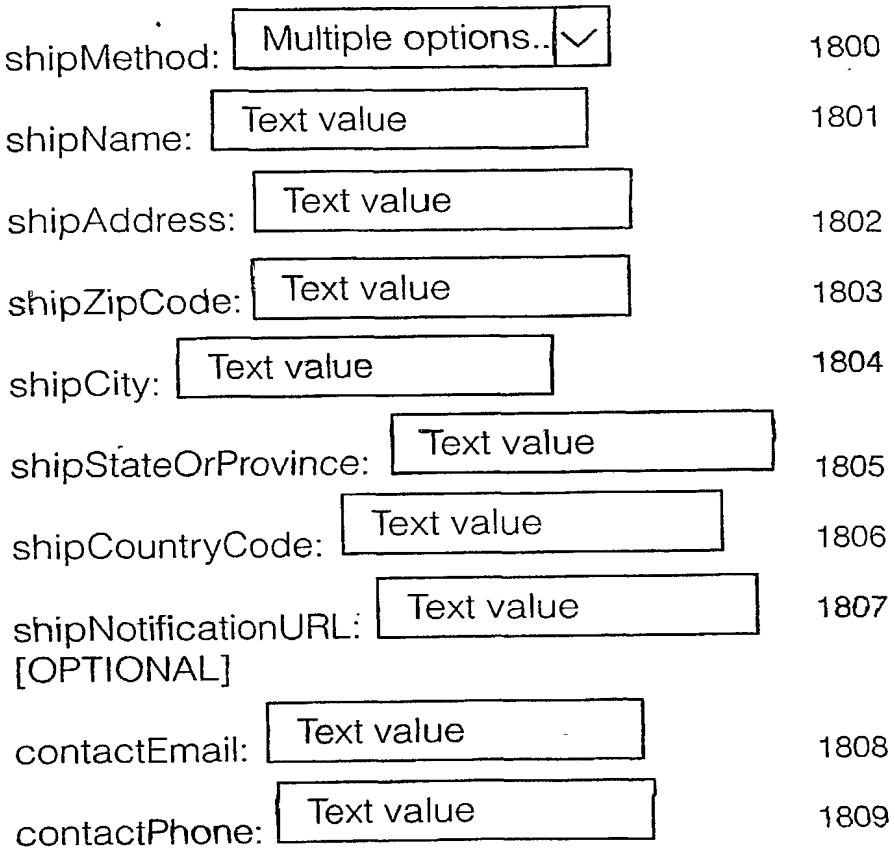
shipMethod:
Multiple options..
1800
shipName:
Text value
1801
shipAddress:
Text value
1802
shipZipCode:
Text value
1803
shipCity:
Text value
1804
shipStateOrProvince:
Text value
1805
shipCountryCode:
Text value
1806
shipNotificationURL:
[OPTIONAL]
Text value
1807
contactEmail:
Text value
1808
contactPhone:
Text value
1809

Fig. 18

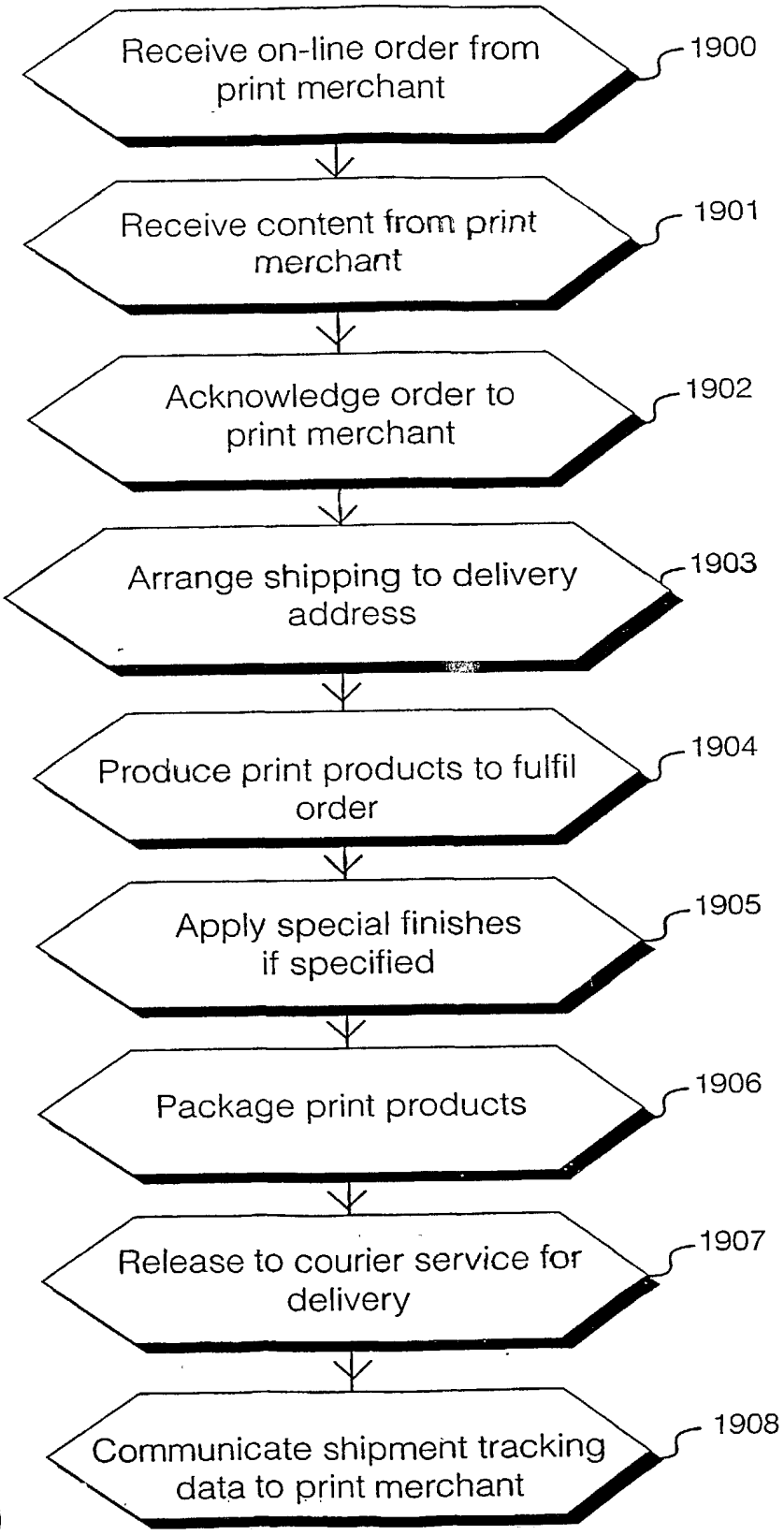
Receive on-line order from print merchant
1900
Receive content from print merchant
1901
Acknowledge order to print merchant
1902
Arrange shipping to delivery address
1903
Produce print products to fulfil order
1904
Apply special finishes if specified
1905
Package print products
1906
Release to courier service for delivery
1907
Communicate shipment tracking data to print merchant
1908

Fig. 19